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ONE TRANSMITTAL			Confirmation Numb	oer	6679	
FORM	Filing Date		07/29/2003			
DEC B El			First Named Invent	tor	Joseph M	ichael Christie
all correspondence after	initial	filina)	Art Unit		2661	
THADE			Examiner Name			
Total Number of Pages in This Submiss	ion	209	Attorney Docket No	umber	1111b	
		ENCLO	SURES (check all tha	t apply)		
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Incomplete Application Reply to Missing Parts under 37 CFR1.52 or 1.53	Sta	tement is	e that each item of inf being filed before the 37 CFR 1.97(b).	ormation mailing o	contained in date of a first	this Information Disclosu t Office Action on the men
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Signature						
Printed Name Stephen S. Roc			the			
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WINFORMATION DISCLOSURE STATEMENT BY APPLICANT

(Use as many sheets as necessary)

· j	Complete if Known	
Application Nümber	10/629,265	
Filing Date \	07/29/2003	
First Named Inventor	Joseph Michael Christie	
Art Unit	2661	
Examiner Name	·	
Attorney Docket Number	1111b	J

	U.S. PATENT DOCUMENTS							
Examiner Cite		Document Number	Publication Date	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevan			
Initials *	nitials * No.¹ Number - Kind Code² (if know	Number - Kind Code ² (if known)	MM-DD-YYYY		Passages or Relevant Figures Appear			
	1	US-4,720,850	01/19/1988	Oberlander et al.				
	2	US-4,730,312	03/08/1988	Johnson et al.				
	3	US- 4,736,364	04/05/1988	Basso et al.				
	4	US- 4,748,658	05/31/1988	Gopal et al.				
	5	US- 4,757,526	07/12/1988	Foster et al.				
	6	US- 4,763,317	08/09/1988	Lehman et al.				
	7	US- 4,853,955	08/01/1989	Thorn et al.				
	8	US- 5,003,584	03/26/1991	Benyacar et al.				
	9	US- 5,048,081	09/10/1991	Gavaras et al.				
	10	US- 5,051,983	09/24/1991	Kammerl				
	11	US- 5,089,954	02/18/1992	Rago				
	. 12	US- 5,115,427	05/19/1992	Johnson, Jr. et al.				
	13	US- 5,185,743	02/09/1993	Murayama et al.	*			
	14	US- 5,204,857	04/20/1993	Obara				
	15	US- 5,251,255	10/05/1993 11/02/1993	Epley Oomuro et al.				
	16	US- 5,258,979 US- 5,271,010	12/14/1993	Miyake et al.	· · · · · · · · · · · · · · · · · · ·			
	17		12/14/1993	Rahman et al.				
	18 19	US- 5,274,635 US- 5,282,244	01/25/1994	Fuller et al.				
	20	US- 5,289,472	02/22/1994	Cho				
	21	US- 5,291,492	03/01/1994	Andrews et al.				
			07/05/1994	Hiller et al.				
	22	US- 5,327,421						
	23	US- 5,339,318	08/16/1994	Tanaka et al.				
	24	US- 5,345,443	09/06/1994	D'Ambrogio et al.				
	25	US- 5,345,445	09/06/1994	Hiller et al.	. A			
	26	US- 5,345,446	09/06/1994	Hiller et al.				
	27	US- 5,363,433	11/08/1994	Isono				
	28	US- 5,375,124	12/20/1994	D'Ambrogio et al.				
	- 29	US- 5,377,186	12/27/1994	Wegner et al.				
	30	US- 5,392,402	02/21/1995	Robrock, II				
	31	US- 5,420,858	05/30/1995	Marshall et al.				
	32	US- 5,422,882	06/06/1995	Hiller et al.				
	33	US- 5,425,090	06/13/1995	Orriss				
	34	US- 5,428,609	06/27/1995	Eng et al.				
	35	US- 5,434,852	07/18/1995	La Porta et al.				
	36	US- 5,434,981	07/18/1995	Lenihan et al.				
	37	US- 5,438,527	08/01/1995	Feldbaumer et al.				
	38	US- 5,440,626	08/08/1995	Boyle et al.				
		···	08/22/1995	Backaus et al.				
	39	US- 5,444,713			 			
	40	US- 5,452,297	09/19/1995	Hiller et al.				
	41	US- 5,452,350	09/19/1995	Reynolds et al.				
	42	US- 5,457,684	10/10/1995	Bharucha et al.				
	43	US- 5,459,722	10/17/1995	Sherif				
	44	US- 5,469,501	11/21/1995	Otsuka				
	45	US- 5,473,677	12/05/1995	D'Amato et al.				
	46	US- 5,473,679	12/05/1995	La Porta et al.				
	47	US- 5,483,527	01/09/1996	Doshi et al.				

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Substitute for form 1449A/PTO Complete if Known Application Number 10/629,265 **INFORMATION DISCLOSURE** 07/29/2003 Filing Date STATEMENT BY APPLICANT Joseph Michael Christie First Named Inventor 2661 Art Unit (Use as many sheets as necessary) Examiner Name 1111b Sheet Attorney Docket Number

U.S. PATENT DOCUMENTS							
Examiner Initials *	Cite No. ¹	Document Number Number - Kind Code ² (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevar Passages or Relevant		
	48	US- 5,495,484	02/27/1996	Self et al.	Figures Appear		
	49	US- 5,509,010	04/16/1996	La Porta et al.			
	50	US- 5,519,707	05/21/1996	Subramanian et al.			
	51	US- 5,519,690	05/21/1996	Suzuka et al.			
	52	US- 5,530,724	06/25/1996	Abrams et al.			
	53	US- 5,537,461	07/16/1996	Bridges et al.	·		
	54	US- 5,541,917	07/30/1996	Farris			
	55	US- 5,550,834	08/27/1996	D'Ambrogio et al.			
	56	US- 5,550,914	08/27/1996	Clarke et al.			
	57	US- 5,563,939	10/08/1996	La Porta et al.			
-	58	US- 5,566,173	10/15/1996	Steinbrecher			
	59	US- 5,568,475	10/22/1996	Doshi et al.			
	60	US- 5,577,037	11/19/1996	Takatori et al.			
	61	US- 5,579,311	11/26/1996	Chopping et al.			
	62	US- 5,592,477	. 01/07/1997	Farris et al.			
	63	US- 5,600,643	02/04/1997	Robrock, II	·		
	64	US- 5,619,561	04/08/1997	Reese			
	65	US- 5,623,491	04/22/1997	Skoog			
	66	US- 5,635,980	06/03/1997	Lin et al.			
	67	US- 5,640,446	06/17/1997	Everett et al.			
	68	US- 5,673,262	09/30/1997	Shimizu			
	69	US- 5,689,550	11/18/1997	Garson et al.			
	70	US- 5,706,286	01/06/1998	Reiman et al.			
	71	US- 5,765,108	06/09/1998	Martin et al.			
	72	US- 5,784,371	07/21/1998	lwai	****		
	73	US- 5,793,765	08/11/1998	Boer et al.			
	74	US- 5,825,780	10/20/1998	Christie			
		 	02/16/1999				
	75	US- 5,872,785		Kienberger			
	76	US- 5,991,301	11/23/1999	Christie			
	77	US- 5,999,594	12/07/1999	Mizoguchi et al.			
	78	US- 6,175,574	01/16/2001	Lewis			
	79	· US- 6,181,703	01/30/2001	Christie et al.			
	80	US- 6,324,179	11/27/2001	Doshi et al.			
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FOREIGN PATENT DOCUMENTS							
Examiner Initials*	Cite No. ¹	Foreign Patent Document Country Code ³ - Number ⁴ - Kind Code ⁵ (<i>if known</i>)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T. ⁶	
	81	EP0439098	07/31/1991	Tanabe et al.			
	82	WO9214321	08/20/1992	Takase et al.			
	83	JP2215247	08/28/1990	Tsuboi et al.			
	84	JP1300738	12/05/1989	Suzuki et al.			
	85	JP1013534	01/18/1989	Kamio et al.			
	86	JP4180324	06/26/1992	Atsushi et al.			
	87	JP4196635	07/16/1992	Osahide			
	88	JP5327751	12/10/1993	Hyodo et al.	·		
	89	JP6006320	01/14/1994	Baba et al.			
	90	JP6209365	07/26/1994	Toshiro et al.			
	91	JP7250099	09/26/1995	Koshiro et al.			
	92	JP8149137	06/07/1996	Nakajima et al.			
 	93	HU71152	11/28/1995	Hiller et al.			
	94	EP0935856	08/18/1999	Christie et al.			
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Examiner Signature	Date Considered	

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	DIATION		OL COLUDE	Application Number	10/629,265
	RMATION I		=	Filing Date	07/29/2003
STAT	STATEMENT BY APPLICANT			First Named Inventor	Joseph Michael Christie
				Art Unit	2661
(Use as many sheets as necessary)		Examiner Name			
Sheet	4	of	4	Attorney Docket Number	1111b

	NON PATENT LITERATURE DOCUMENTS	
Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
95	KURIBAYASHI, SHIN-ICHI; Advanced Signaling Protocol for Broadband ISDN Services; Electronics and Communications in Japan; Part 1, Volume 78, Number 1, Pages 1-12.	
96	Hungarian office action dated June 23, 1999 citing Hungarian patent number HU170127 for Hungarian Application No. P9900232; 2 pages.	
97	Russian office action dated April 22, 2002 citing Russian patent numbers RU2013011 and RU2007880 for Russian Application No. 99112956; 6 pages.	
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	95 96	Cite No. Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published. KURIBAYASHI, SHIN-ICHI; Advanced Signaling Protocol for Broadband ISDN Services; Electronics and Communications in Japan; Part 1, Volume 78, Number 1, Pages 1-12. Hungarian office action dated June 23, 1999 citing Hungarian patent number HU170127 for Hungarian Application No. P9900232; 2 pages. Russian office action dated April 22, 2002 citing Russian patent numbers RU2013011 and RU2007880 for

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Signature	Considered	

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